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IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF

TOSHIO ISOZAKI, ET AL.

: EXAMINER: DARCY D. LACLAIR

SERIAL NO: 10/589,639

FILED: AUGUST 16, 2006

: GROUP ART UNIT: 1796

FOR: POLYCARBONATE RESIN

COMPOSITION AND MOLDED ARTICLE

THEREOF

DECLARATION UNDER 37 C.F.R. §1.132

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

SIR:

I, Kenichi MITSUHASHI, hereby declare:

- I graduated from the master Course in polymer chemistry of Tokyo Institute of 1. Technology in 1990.
- 2. I have been employed by the Idemitsu Kosan Co., Ltd. (the "Idemitsu"), the assignee of the above-identified application from 1990 to the present.
- 3. From 1990 to the present, I have worked as a researcher for Idemitsu in the area of polymer chemistry, especially polycarbonate.
- I carried out the following experimentation. Polycarbonate resin compositions 4. falling within or outside the scope of claim 1 of the above-identified application were prepared and evaluated as described in paragraphs [0038] to [0039] and [0041] to [0043] of the above-identified application. The amounts of the respective components and the

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evaluation results are shown in TABLE A. Example 6, which is described in the aboveidentified application, is included for convenient comparison.

5. As shown in TABLE A, polycarbonate resin compositions falling within the scope of claim 1 of the above-identified application yield molded articles with excellent impact resistance and flame retardance relative to polycarbonate resin compositions falling outside the scope of claim 1 of the above-identified application. This difference in impact resistance and flame retardance is unexpected, and constitutes objective evidence of the improvements of the polycarbonate resin composition of claim 1 over known resin compositions, as in Meyer et al., Laughner, Paul et al. and Laughner et al.

Table A

-			Carre		1		
Components			Comparative			Comparative Example	
admixed		Example A Example		··	Example 6		
(parts by mass)			A	' B		С	D
(A)	PC-2 (A-2)				35	35	35
	PC-3 (A-1)	75 ,	75	· 75	50	50	50
(B)	AS-1	15	15	15	15	15	15
(C)	Talc	10	0.5	25	10	0.5	25
(D)	Elastomer-1	5	0.5	20			
	Elastomer-2				5	0.5	20
(G)	PTFE	0.5	0.05	5	0.5	0.05	5
Evaluation	SFL (260°C, 2 mm thick) (cm)	39	43	35	42	44	36
	Izod impact strength (kJ/cm²)	35	5	15	40	6	15
	HDT (load: 1.83 MPa) (°C)	117	115	113	116	118	112
	Flexural strength (MPa)	92	90	87	92	93	87
	Flexural modulus (MPa)	3500	2400	5000	3500	2300	4800
	Flame retardance (UL94, 1.5 mm thick)	Not-V	Not-V	Not-V	V-0	Not-V	Not-V
	LOI	23	. 22	22	41	26	27

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6. All statements made herein of my own knowledge are true, and all statements made on information and belief are believed to be true; these statements were made with the knowledge that willful false statements are punishable by fine and/or imprisonment under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of this application or any patent issuing therefrom.

Date: June 25, 2009

Kenichi MITSUHASHI